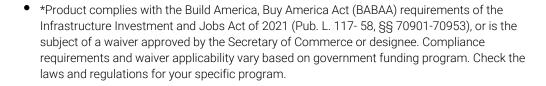
75 Ohm QR® Trunk and Distribution Cable, black PE jacket with integrated figure 8 self-supporting galvanized solid steel messenger



Product Classification

Regional Availability

North America

Product Type Coaxial hardline cable

Product Brand QR®

Government FundingBuild America Buy America (BABA) compliant*

General Specifications

Cable Type540 SeriesConstruction TypeWeldedJacket ColorBlack

Short Description QR 540 JCAM109 SM PR2171

Dimensions

Cable Length 1,127.76 m | 3700 ft **Diameter Over Center Conductor, nominal** 3.15 mm | 0.124 in **Diameter Over Dielectric, nominal** 13.056 mm | 0.514 in **Diameter Over Jacket, nominal** 15.494 mm | 0.61 in Diameter Over Messenger Wire, nominal 2.769 mm | 0.109 in **Diameter Over Outer Conductor, nominal** 13.716 mm | 0.54 in 0.889 mm | 0.035 in Jacket Thickness, nominal 0.343 mm | 0.014 in **Outer Conductor Thickness, nominal**

Electrical Specifications

Capacitance 50.197 pF/m | 15.3 pF/ft

Capacitance Tolerance $\pm 1.0 \text{ pF/ft}$

COMMSCOPE®

Characteristic Impedance75 ohmCharacteristic Impedance Tolerance±2 ohm

dc Resistance Note Nominal values based on a standard condition of 20 °C (68 °F)

dc Resistance, Inner Conductor, nominal3.346 ohms/km | 1.02 ohms/kftdc Resistance, Loop, nominal5.282 ohms/km | 1.61 ohms/kftdc Resistance, Outer Conductor, nominal1.936 ohms/km | 0.59 ohms/kft

Jacket Spark Test Voltage 5000 Vac

Nominal Velocity of Propagation (NVP) $$88\,\%$$

Operating Frequency Band 5-3000 MHz

Structural Return Loss 24 dB @ 1003-1218 MHz | 24 dB @ 1219-1794 MHz | 30 dB @ 5-1002

MHz

Structural Return Loss, Grade N ≥24 dB @ 1003−1218 MHz | ≥24 dB @ 1219−1794 MHz | ≥30 dB @ 5−

1002 MHz

Attenuation

Frequency (MHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)
5.0	0.46	0.14
55.0	1.54	0.47
85.0	1.94	0.59
204.0	3.05	0.93
211.0	3.12	0.95
250.0	3.38	1.03
300.0	3.71	1.13
350.0	4.04	1.23
400.0	4.33	1.32
450.0	4.59	1.4
500.0	4.89	1.49
550.0	5.12	1.56
600.0	5.38	1.64
750.0	6.07	1.85
865.0	6.56	2
1002.0	7.12	2.17
1218.0	7.89	2.41
1500.0	9.07	2.76
1794.0	10.11	3.08





1800.0	10.13	3.09
2000.0	10.81	3.29
2200.0	11.46	3.49
2500.0	12.41	3.78
2700.0	13.03	3.97
3000.0	13.93	4.24

Material Specifications

Center Conductor Material Copper-clad aluminum

Dielectric Material Foam PE

Jacket Material PE

Messenger Wire Material Steel

Outer Conductor Material Aluminum

Mechanical Specifications

Minimum Bend Radius, bonded 101.6 mm | 4 in

Messenger Wire Breaking Strength, minimum 816.466 kg | 1800 lb

Pulling Tension, maximum 99.79 kg | 220 lb

Environmental Specifications

Environmental Space Aerial

Packaging and Weights

Packaging Type Reel

Weight, gross 252.988 kg/km | 170 lb/kft

Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
REACH-SVHC	Compliant as per SVHC revision on www.commscope.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant





